



# Katanning Gold Project

## Pre-Feasibility Study

August 2022

# Disclaimer

## Competent Person's Statement

The information in this statement that relates to the Mineral Resource estimates is based on work carried out by Dr Michael Cunningham of Sonny Consulting Services Pty Ltd, Mr Daniel Guibal of Condor Geostats Services and Dr Matthew Greentree of Ausgold Limited in 2021 and 2022. The information in this statement that relates to the Ore Reserve estimates is based on work carried out by Mr Andrew Hutson of Resolve Mining Solutions in 2022. Dr Greentree is Managing Director and a shareholder in Ausgold Limited. Dr Greentree takes responsibility for the integrity of the Exploration Results, including sampling, assaying, QA/QC, the preparation of the geological interpretations, and Exploration Targets. Dr Michael Cunningham is an option holder in Ausgold Limited and takes responsibility for the Mineral Resource estimates for the Jackson, Olympia, Dingo and Datatine deposits. Mr Daniel Guibal takes responsibility for the Mineral Resource estimates for the Jinkas and White Dam deposits. Dr Cunningham, Mr Guibal and Dr Greentree are Members of the Australasian Institute of Mining and Metallurgy and have sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration, and to the activity they are undertaking, to qualify as Competent Persons in terms of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code, 2012 edition). Mr Hutson is a Fellow of the Australasian Institute of Mining and Metallurgy and has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration, and to the activity they are undertaking, to qualify as Competent Persons in terms of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code, 2012 edition). The Competent Persons consent to the inclusion of such information in this report in the form and context in which it appears.

## References

This presentation does not contain any new information. Any exploration results referenced in the document have previously been released to the ASX. The following is a summary of relevant information and announcements: Datatine (01/06/18, 13/12/17, 23/03/17, 14/02/17 & 11/04/17), Jackson (28/05/18, 23/03/18 & 28/05/2019, 23/06/2021), Jinkas (16/11/18, 18/05/18, 14/05/18, 03/04/18, 6/03/18, 28/05/2019 & 16/07/2019, 26/01/20, 20/03/20, 31/08/20, 09/07/20, 9/10/20, 29/03/21, 12/05/21, 12/05/21; 23/06/2021; 1/10/2021; 9/10/2021), White Dam (1/9/20; 1/10/2021), Lukin (28/03/18), Rifle Range (17/03/21) and Woodanilling (9/04/21) Dingo (12/05/21; 23/06/2021; 20/07/2021; 27/08/2021; 1/10/2021; 13/02/2022).

The information in this report that relates to the Mineral Resource information announced to the ASX on 25 May 2022 and a Prefeasibility Study announced on 1 August 2022. Ausgold confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcement and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed.

## Currency and Cost Assumptions

All financial amounts in this report are expressed as Australian dollars as either 'A\$' unless otherwise indicated. Costs have been estimated in Q2 2022 Australian dollars and are not escalated or inflated. Cashflow discounting begins after construction and during the ramp-up period

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# Ausgold Pre-Feasibility Study

*Mid-Tier Gold Mine with outstanding growth potential*

## Life of Mine

11 years



## Ore Reserve

32Mt @1.25g/t  
gold for  
1.28 Moz

## Mineral Resources

56Mt @1.21g/t  
gold for  
2.16 Moz

## Name Plate Capacity

3.0Mtpa



## First 6 years. Production

126,000oz p.a.



## Metallurgical Recovery

90%



## EBITDA (LOM)

A\$981M

## NPV<sub>5</sub> (post-tax)

A\$364M

## Capital Cost

A\$225M

## IRR (post-tax)

40.7%

## Operating Cost (AISC)

A\$1,370/t  
First 6 years

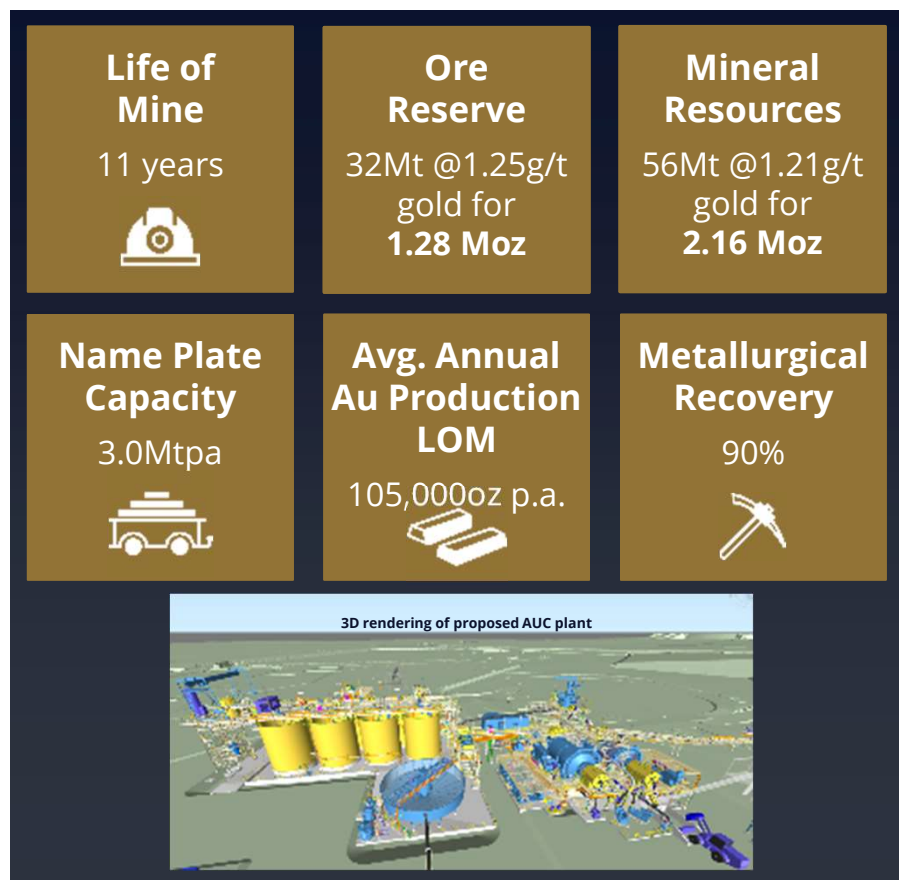
## Payback Period

1.7 years



# Mine Project Overview

## *Mid-Tier Gold Mine with outstanding growth potential*



- 11 year mine life using open cut mining methods producing 105,000 oz per annum
- High-grades in initial 6 years of mining deliver an average gold production 126,000 oz per year, generating \$555M after tax free cashflow over this period enabling early payback of 1.7 years at a post-tax IRR of 40.7%
- Maiden Probable Ore Reserve of 32Mt @ 1.25g/t gold for 1.28Moz
- Name plate capacity of 3Mtpa on-site conventional gravity and CIL processing facility
- Excellent metallurgical characteristics with conventional CIL processing facility for LOM average recovery of 90%
- Low stable energy cost operation over life of mine with immediate connection to grid power and potential to access local renewable energy sources

# Mine Economics

*Mid-Tier Gold Mine with outstanding growth potential*

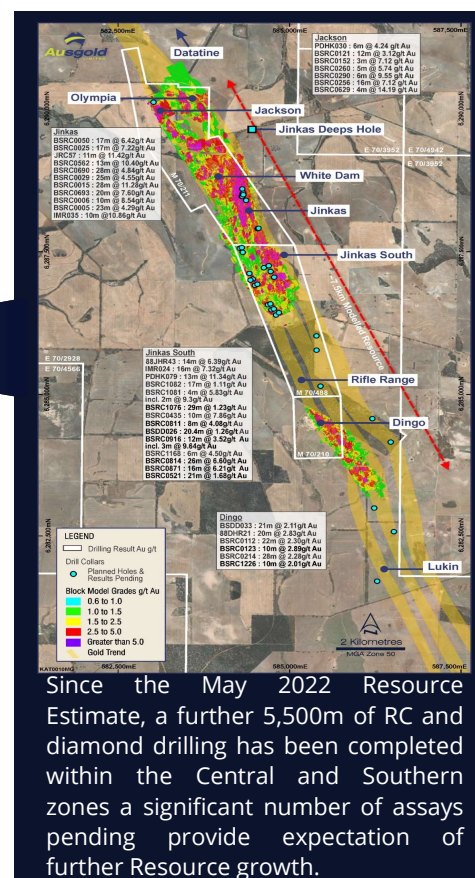
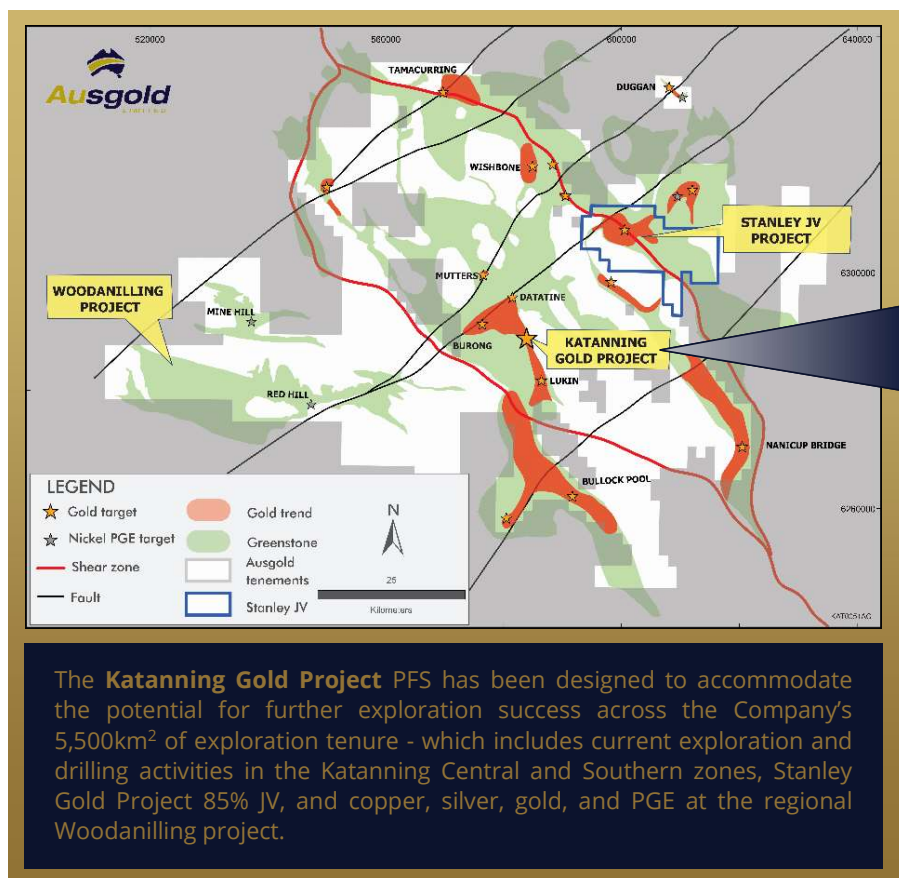
<b>EBITDA (LOM)</b> <b>A\$981M</b>	<b>NPV<sub>5</sub> (post-tax)</b> <b>A\$364M</b>	<b>Capital Cost</b> <b>A\$225M</b>
<b>IRR (post-tax)</b> <b>40.7%</b>	<b>Operating Cost (AISC)</b> <b>A\$1,480/t</b> LOM	<b>Operating Margin</b> <b>40.0%</b>
<b>Payback Period</b> <b>1.7 years</b>	<b>Sensitivity:</b> 10% increase in gold price = 37 % increase in NPV	

## Key financial forecasts for the PFS

- LOM Revenue of A\$2.7Bn
- LOM undiscounted post-tax free cashflow A\$548 million over 11 years of commercial production
- NPV<sub>5</sub> of \$364M (post-tax)
- Payback period 1.7 years
- Pre-production capital requirement of A\$225M
- Internal Rate of Return (IRR) of 40.7% (post-tax)
- Financial metrics based on A\$2,300 per ounce gold price

# Outstanding Growth Potential

## *Katanning PFS is the start of a larger multi-million ounce operation*



### Current and planned exploration and drilling activities for growth

Significant drilling program ongoing targeting further Resource expansion and growth within Central and Southern Zones.

Further growth potential exists with respect to underground (below 150m), northern zone area, and across Ausgold's regional tenure holding gold, copper, silver, and PGE opportunities<sup>1</sup>.

Further optimisation studies are also in train to assess options for potential scale of the KGP.

Market to expect further Resource and Reserve Growth.

<sup>1</sup> Refer to Appendix for scale opportunities

# Resource and Reserves



Mineral Resource	Tonnes (Mt)	Grade (g/t Au)	Contained Ounces (Moz)
Measured	19.0	1.31	800,000
Indicated	26.8	1.14	984,000
Inferred	9.5	1.03	370,000
<b>Total</b>	<b>56.0</b>	<b>1.21</b>	<b>2,160,000</b>

Ore Reserve	Tonnes (Mt)	Grade (g/t Au)	Contained Ounces (Moz)
Probable	32	1.25	1,280,000
<b>Total</b>	<b>32</b>	<b>1.25</b>	<b>1,280,000</b>

## Life of Mine Mineral Resources and Ore Reserve Inventory

Notes: Mineral Resources are Reported at a 0.6g/t Au cut-off grade and ore reserves are reported based on a A\$2,200 gold price as a basis for cut-off grade estimations. Life of mine only includes Central zone and Dingo Resource areas.

# Investment Highlights

*Ausgold is becoming the next Australian mid-tier Gold producer*



## Foundation

### Critical Mass – Stand-alone gold operation to produce +100kozpa

- Large Resource of 2.16 Moz @ 1.21g/t Au
- Maiden Reserve 1.28 Moz @ 1.25g/t Au
- 11 year LOM with initial 6 years to deliver 126 Koz gold production per annum
- Early payback of 1.7 years - at a post-tax IRR of 40.7%

## Scale

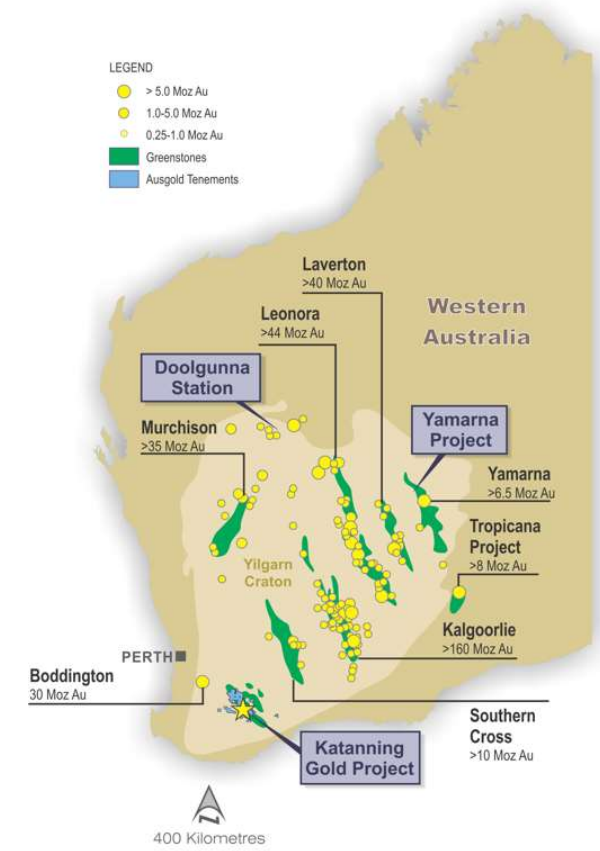
### Multi-Million Ounce Growth Potential

- Further scale identified in current PFS for a larger operation
- Multimillion ounce potential with low discovery cost
- 5,500 km<sup>2</sup> of highly prospective tenure in SW Yilgarn recent high-grade drill results

## Optionality

### Other High value projects

- Woodanilling Nickel-Copper-PGE prospectivity
- Yamarna JV Nickel/Copper/Cobalt;
- Doolgunna JV Copper/Gold;
- Cracow Gold/Copper; and
- Lake Magenta Gold







ASX: **AUC** FRA:AU4

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# Appendix

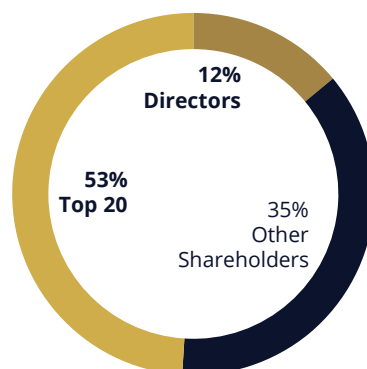
# Corporate



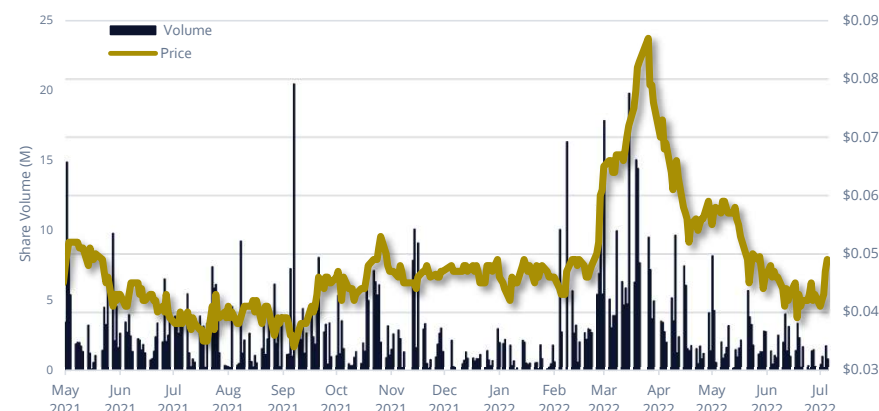
## Capital Structure

at 29 July 2022

Shares on Issue	2,029m
Unlisted Options (@ A\$0.06-0.08)	48m
Share Price	A\$0.049
Market Capitalisation	A\$100 m
Cash	A\$10.9m



## Share Price



## Board of Directors

**Richard Lockwood**  
Non-Executive  
Chairman

Career in mining investment, stockbroking, funds management with active involvement in development in several mining groups & numerous mining projects globally

**Dr Matthew Greentree**  
Managing Director

20 years' experience over 60 mineral projects, specialist in exploration targeting & structural geology, team leadership. Member of the Australian Institute for Mining and Metallurgy (AusIMM) and the Australian Institute of Geoscientists (AIG)

**Denis Rakich**  
Executive Director  
& Company Secretary

Extensive knowledge & experience in exploration & mineral production with special expertise in management of resource companies.

**Geoff Jones**  
Non-Executive  
Director

Engineer with 30 years' experience in project development, construction, mineral processing globally – extensive gold experience as project development engineer at Resolute Mining and various engineering groups. Currently MD of GR Engineering.

**Neil Fearis**  
Non-Executive  
Director

Leading corporate lawyer specializing in mergers, capital raisings and corporate reconstructions with a particular focus on the mining and resources sector. Advisor to some of the largest corporate transactions undertaken in Australia.

**Tim Kestell**  
Non-Executive  
Director

25 years of capital markets experience including working for HSBC, Paterson Securities Limited and Euroz Securities Limited.

# Overview - Katanning Gold Project



Foundation established

**Resource 2.16 Moz @ 1.21g/t**

*Targeting a stand-alone gold operation producing >100kozpa*

## Upgraded Resource

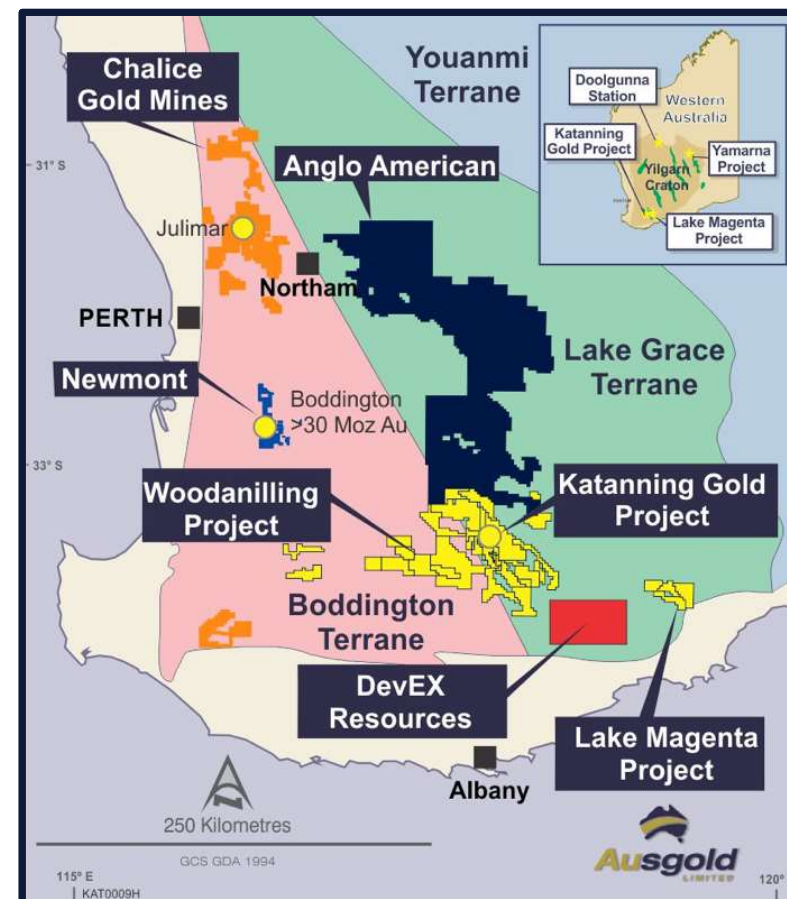
- **960,000 oz** added at low discovery cost of **\$11 per Resource oz**
- **Gold ounces 2.16 moz**
- 80% Increase since April 2021
- **M+I Resource over 1.78 Moz @ 1.21g/t**
- Recent drilling focused to further expand KGP Resource

## Pre-Feasibility Study

- **Reserve 1.28 Moz @1.25 g/t**
- **long life gold project** producing >100 koz per year for 11 years
- **Financial forecasts indicate 1.7 year pay back** with:
  - **\$2.7 Billion** LOM Revenue
  - **IRR 40.7%** and
  - **NPV<sub>5</sub> \$364M** (post-tax)

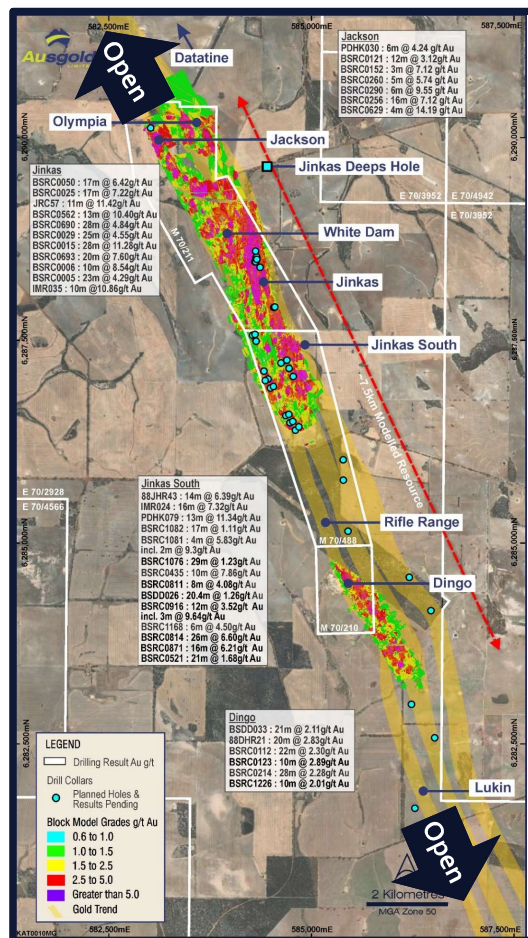
## Project Infrastructure

- Excellent infrastructure with:
  - access to grid power
  - sealed roads
  - nearby towns
- +5,500km<sup>2</sup> landholding covering 130km strike length
- Resource on granted Mining Licences
- Tenements on freehold land, not subject to Native Title

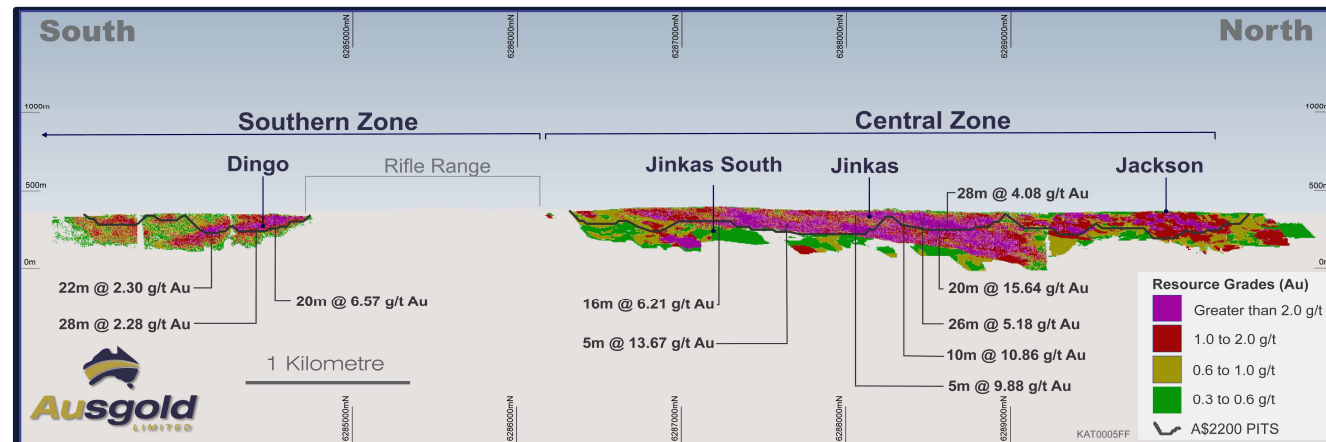




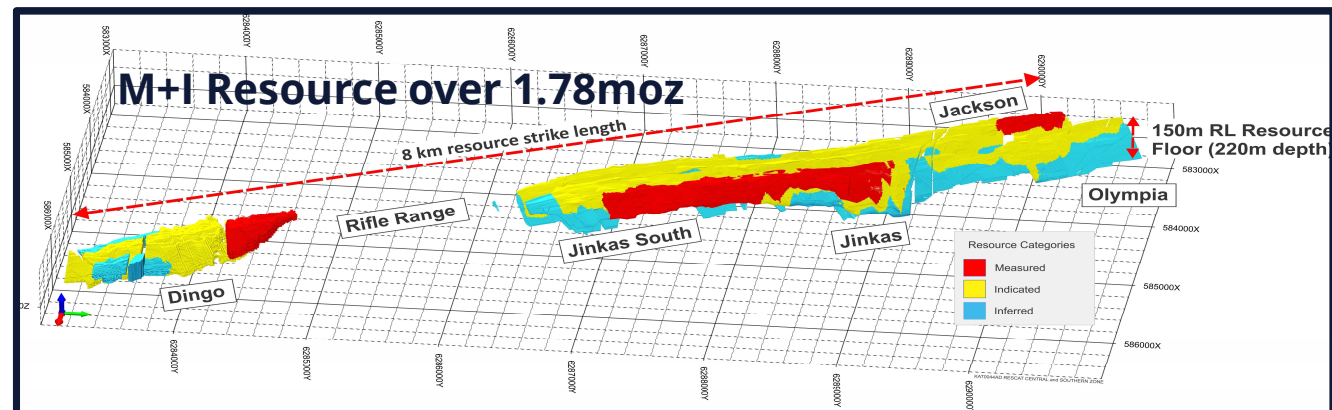
# Katanning overview



Katanning - Main Strike Zone Areas



Katanning Long section through KGP



Resource Categories within KGP

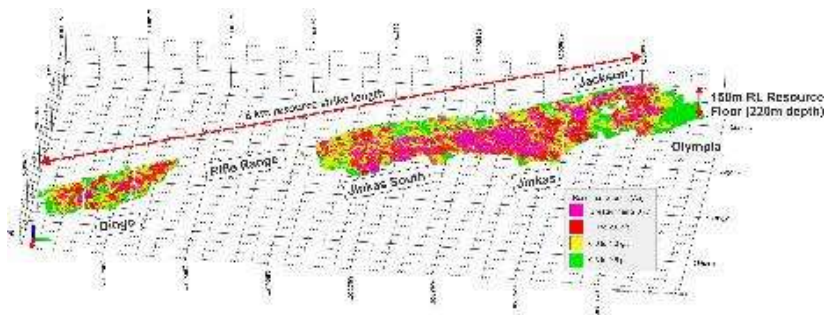
# Scale Opportunity

## Whole-of-Belt Exploration Play

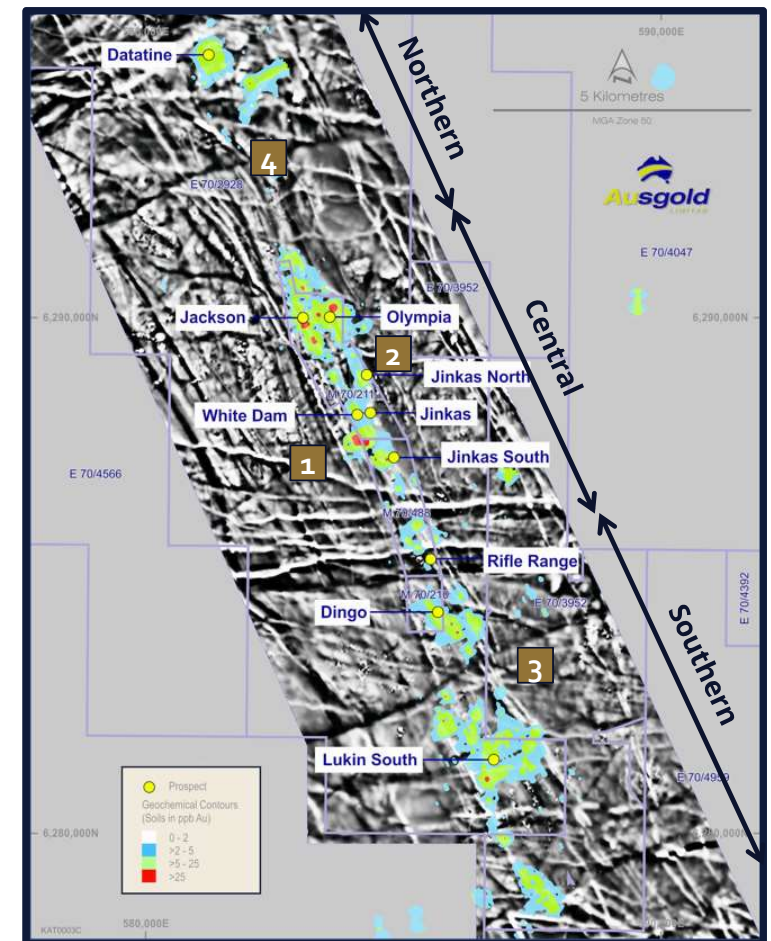
Improved geological model has identified numerous high-grade targets in untested exploration areas along 17km strike

Targeting multiple areas for growth in Resource, which is supported by a number of outstanding exploration opportunities within and outside existing Resource areas.

CY2022 exploration program funded.



- 1 Central Zone
- 2 Central Zone Underground potential
- 3 Southern Zone
- 4 Northern zone
- 5 Regional

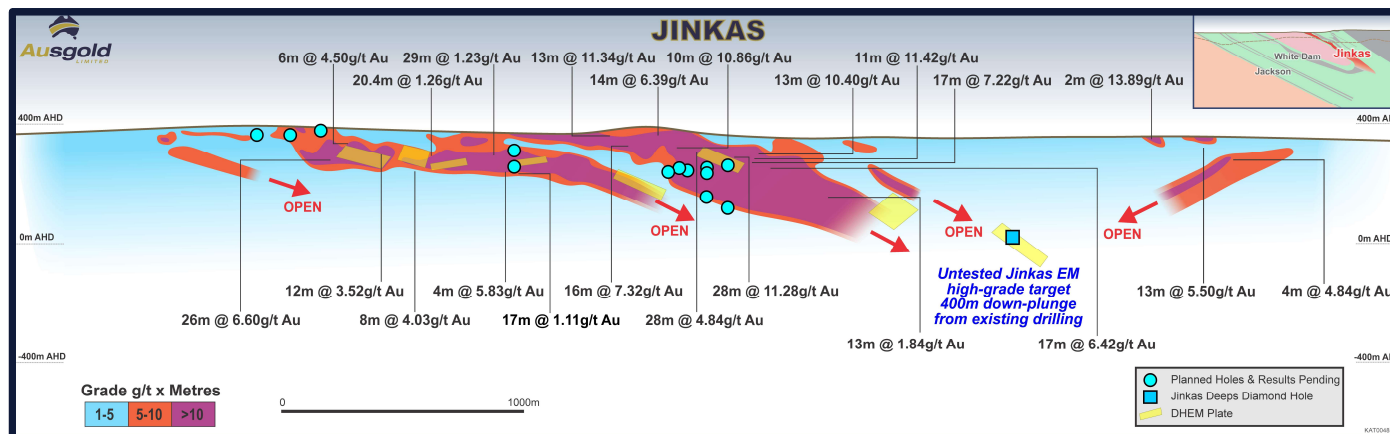




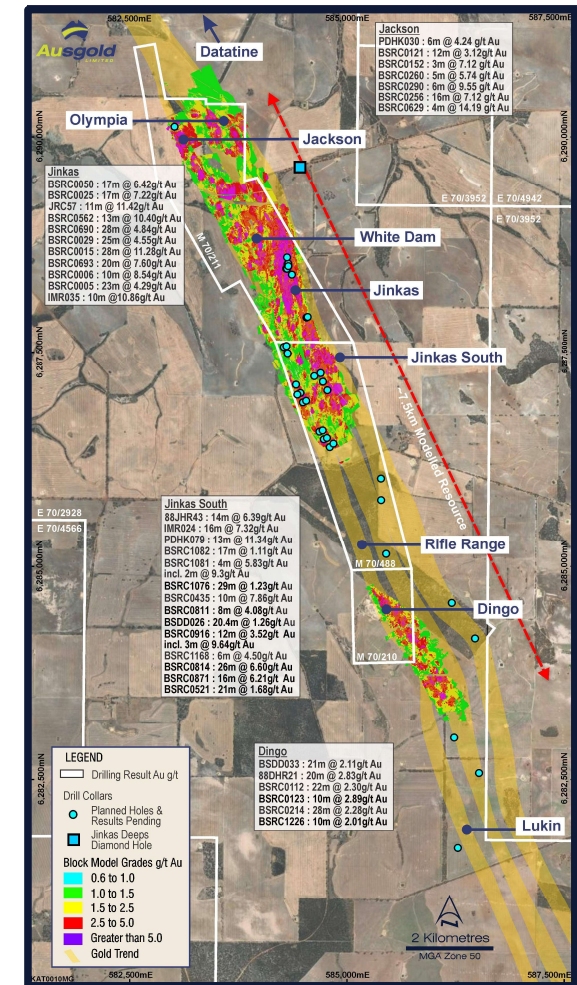
# Scale Opportunity

## Underground Potential

- Untested limited drilling > 300m depth
  - Open along strike and at depth
  - Potential to add high grade Resource ounces
- Down-plunge extensions of high-grade Jinkas and Jinkas South lodes identified
- Downhole EM targets identified – RC and diamond drilling completed with Results pending



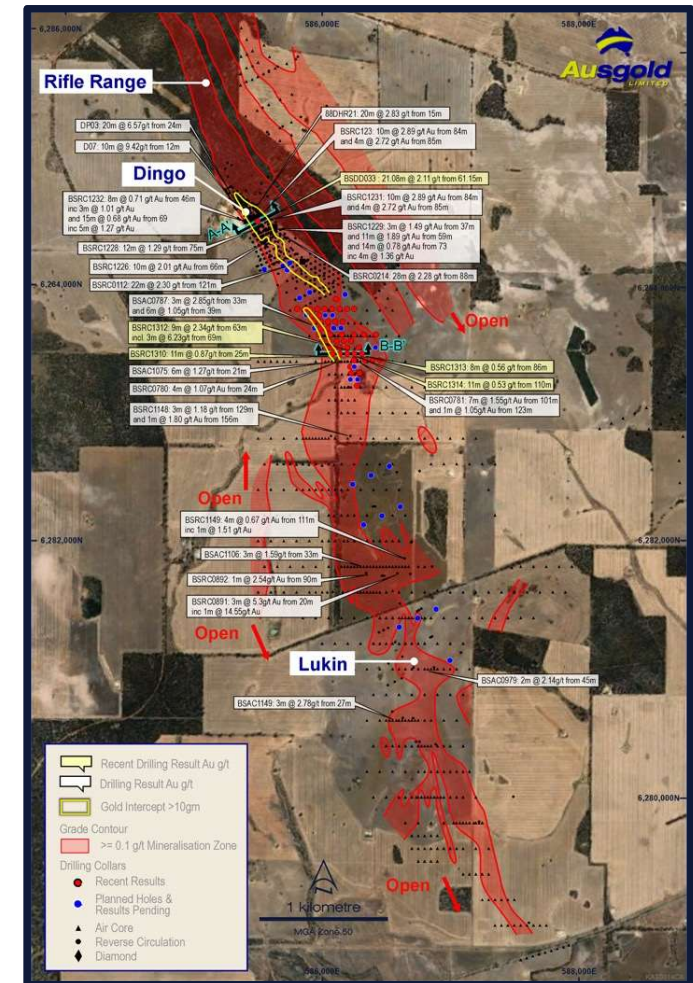
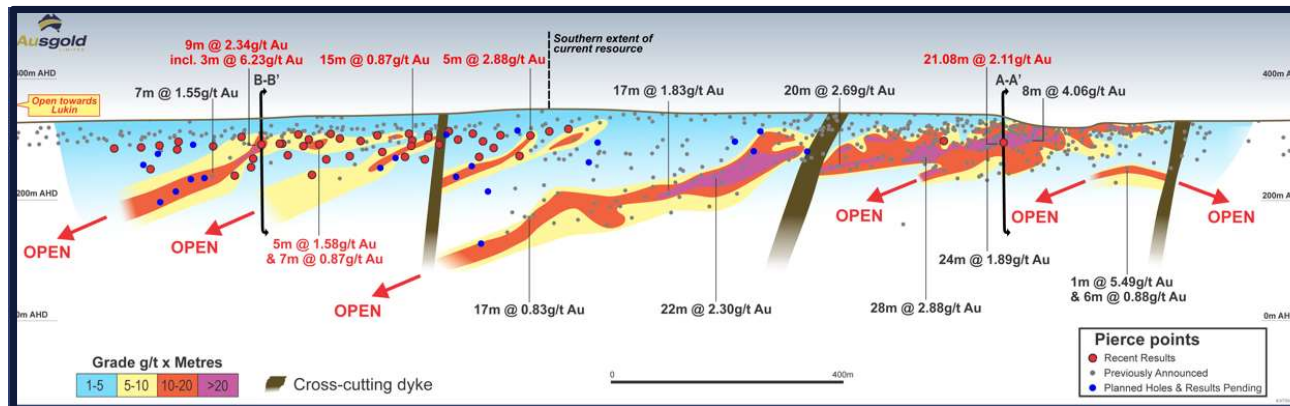
Katanning long section highlighting the identified areas for underground potential



## *Southern Zone*



- Southern Zone follows along strike from the Central Zone mineralisation with extensive gold mineralisation identified in aircore drilling over 8km strike length, with encouraging results from Recent drilling including:
  - 21m @ 2.11 g/t Au from 61.08m including 4.81m @ 6.33 g/t Au in BSDD033
  - 10m @ 2.89 g/t Au from 84m including 3m @ 8.35 g/t Au in BSRC1231
  - 6m @ 4.5 g/t Au from 32m including 2m @ 12.75 g/t Au in BSRC1168
  - 9m @ 2.52 g/t Au from 85m including 5m @ 4.09 g/t Au in BSRC1200
  - 18m @ 1.23 g/t Au from 83m in BSRC1230
  - 10m @ 2.01 g/t Au from 66m in BSRC1226
- **Over 900m additional strike length beyond current Resource identified in new drilling**





## Scale Opportunity

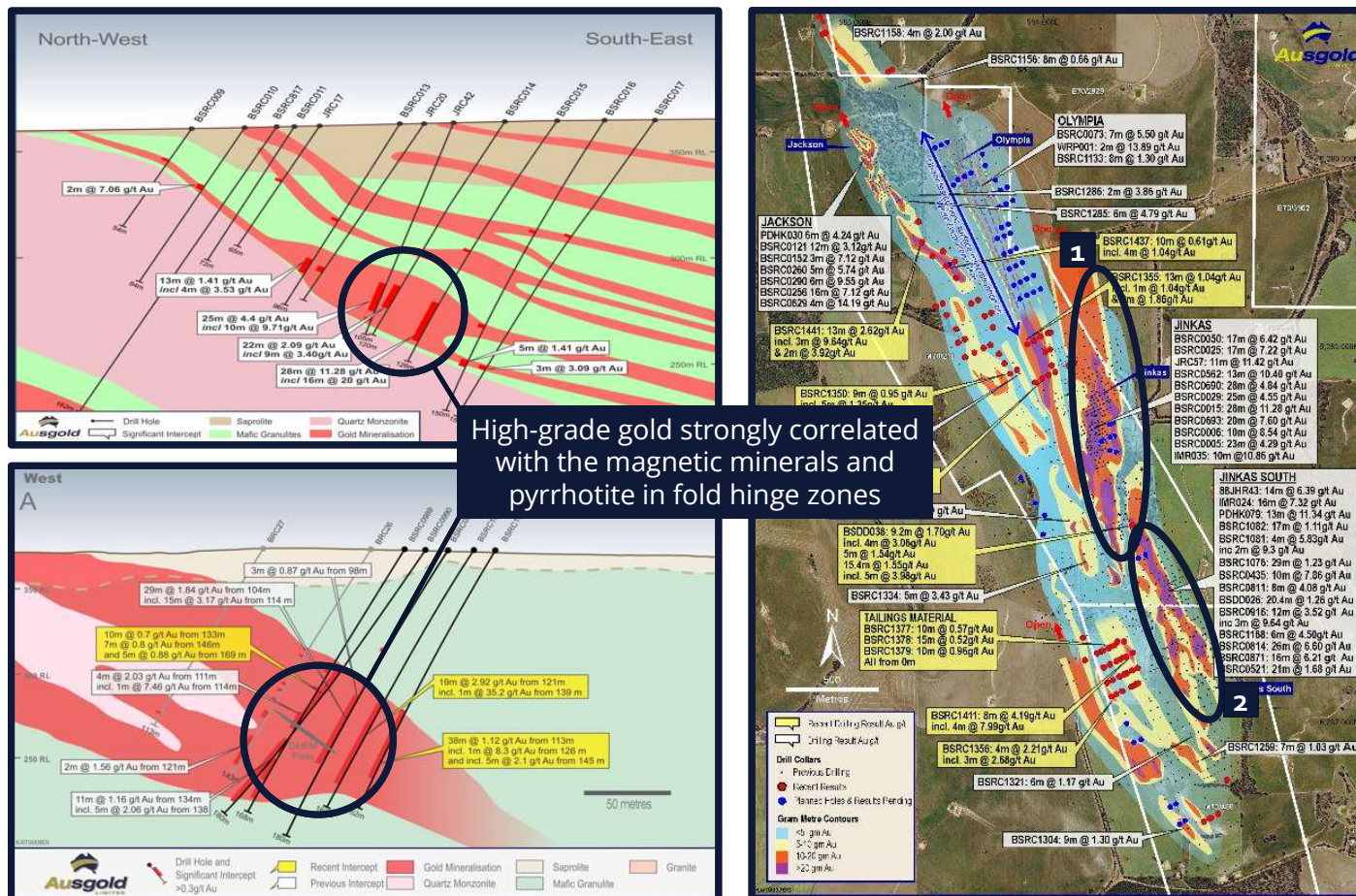
## Jinkas North and South high-grade

## 1. Jinkas North

850 metre gap in drilling along strike from **high-grade Jinkas lode** with coincident geophysical and geochemical anomalies, and includes **underground potential with drilling underway Q2 2022**

## 2. Jinkas South

High-grade parallel lode intersected over 1,300 metres, remains open both north and south along strike. DHEM targets identified **further drilling planned**



# Scale Opportunity

*Untested regional potential over 5,500 km<sup>2</sup>*

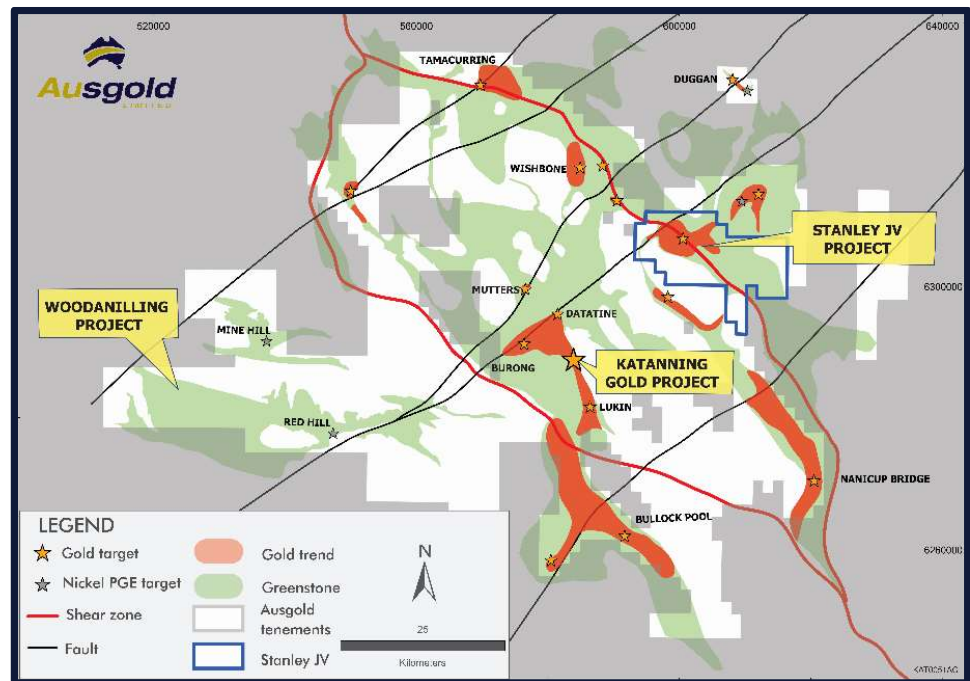


## Gold

- Extensive ground position +5,500km<sup>2</sup> covering 130km strike of underexplored greenstones
- 46 advanced gold targets identified in underexplored greenstone belt
- Stanley Gold Project

## Gold – PGE Potential

- Large magmatic system centered around the Woodanilling 25 km-wide intrusive complex
- Expanded ground holding targeting layered mafic – ultramafic intrusions prospective for Au-Pt-Pd
- Recent drill program has identified mineralisation with zones with >140 ppb Pt-Pd and massive chalcopyrite elevated silver

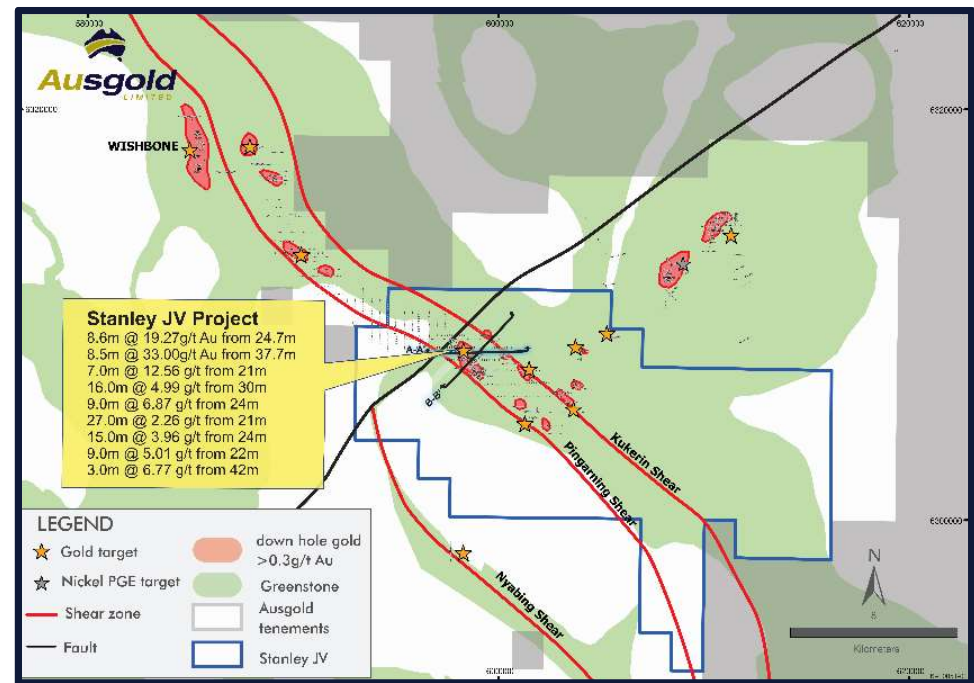


# Scale Opportunity

## *Stanley Gold Project*



- Farm-in agreement with Cygnus Gold Ltd to acquire a 85% majority interest in the Stanley Gold Project.
- The Project covers 233km<sup>2</sup> and a 24km strike length of highly prospective greenstone belt that contains the same sequence that hosts the KGP
- Past drilling intersecting high grade gold mineralisation
  - 8.5m @ 33.00g/t Au from 37.7m inc 2.4m @ 114.62g/t Au in BNDD001
  - 8.6m @ 19.27g/t Au from 24.7m inc 5.7m @ 28.60g/t Au in BNDD003
  - 7m @ 12.56 g/t from 21m in 09KUAC164
  - 16m @ 4.99 g/t from 30m in 09KUAC009
  - 9m @ 6.87 g/t from 24m in 09KUAC012
  - 27m @ 2.26 g/t from 21m in 09KUAC008
  - 15m @ 3.96 g/t from 24m in 08KUAC075
  - 9m @ 5.01 g/t from 22m in 09KUAC158



# Metallurgy

## *Excellent results from first phase metallurgical test work<sup>1</sup>*

### Exceptional gold recoveries

- Recoveries of coarse gravity gold between 40 – 69%
- Preliminary leach extractions demonstrate average total gold recoveries of between 88 – 94% for the Central Zone ores at a 75 µm grind and 24 hour leach time. Higher total gold recoveries of 91 - 96% achieved at finer grinds and longer leach times are to be optimized as part of the current test work program
- Low cyanide consumption of 0.5-0.7 kg/t

### Supports simple, low risk operation

- Testwork demonstrates that Katanning Gold ore is free milling and amenable to a conventional CIL processing flowsheet with recoveries up to 96%

<sup>1</sup> Refer to ASX Release 31 March 2022 for details